

NEWS RELEASE



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Occupational Employment and Wages in Tulsa, May 2014

Workers in the Tulsa Metropolitan Statistical Area had an average (mean) hourly wage of \$20.53 in May 2014, about 10 percent below the nationwide average of \$22.71, according to the U.S. Bureau of Labor Statistics. Regional Commissioner Stanley W. Suchman noted that, after testing for statistical significance, wages in the local area were higher than their respective national averages in 1 of the 22 major groups—production occupations. Sixteen groups had wages that were measurably lower than their respective national averages; included in this group were computer and mathematical; education, training, and library; and construction and extraction. Wages in the remaining occupational groups were not statistically different from their respective national averages.

When compared to the nationwide distribution, local employment was more highly concentrated in 6 of the 22 occupational groups, including production; office and administrative support; and construction and extraction. Conversely, 10 groups had employment shares significantly below their national representation, including business and financial operations; education, training, and library; and computer and mathematical. (See table A and box note at end of release.)

Table A. Occupational employment and wages by major occupational group, United States and the Tulsa Metropolitan Statistical Area, and measures of statistical significance, May 2014

	Percent of total employment			Mean hourly wage				
Major occupational group	United States	Tu	sa	United States	Tul	sa	Percent difference (1)	
Total, all occupations	100.0%	100.0%		\$22.71	\$20.80	*	-8	
Management	5.0	5.7	*	54.08	46.59	*	-14	
Business and financial operations	5.1	3.9	*	34.81	29.11	*	-16	
Computer and mathematical	2.8	1.8	*	40.37	31.88	*	-21	
Architecture and engineering	1.8	2.1	*	39.19	37.89		-3	
Life, physical, and social science	0.8	0.5	*	33.69	37.01		10	
Community and social service	1.4	1.3	*	21.79	18.35	*	-16	
Legal	0.8	0.9		48.61	46.94		-3	
Education, training, and library	6.2	5.1	*	25.10	20.01	*	-20	
Arts, design, entertainment, sports, and media	1.3	0.9	*	26.82	23.86	*	-11	
Healthcare practitioners and technical	5.8	5.5		36.54	33.51	*	-8	
Healthcare support	2.9	2.6	*	13.86	13.16	*	-5	
Protective service	2.4	2.0		21.14	17.56	*	-17	
Food preparation and serving related	9.1	9.1		10.57	9.55	*	-10	
Building and grounds cleaning and maintenance	3.2	2.6	*	12.68	10.93	*	-14	
Personal care and service	3.1	2.6	*	12.01	10.64	*	-11	

Table A. Occupational employment and wages by major occupational group, United States and the Tulsa Metropolitan Statistical Area, and measures of statistical significance, May 2014 - Continued

	Percent of total employment			Mean hourly wage				
Major occupational group	United States	Tu	lsa	United States	Tu	lsa	Percent difference (1)	
Sales and related	10.5	10.9		18.59	17.23	*	-7	
Office and administrative support	16.0	17.1	*	17.08	16.03	*	-6	
Farming, fishing, and forestry	0.3	0.1	*	12.09	14.09		17	
Construction and extraction	3.9	4.8	*	22.40	18.39	*	-18	
Installation, maintenance, and repair	3.9	4.6	*	21.74	20.01	*	-8	
Production	6.6	9.5	*	17.06	18.12	*	6	
Transportation and material moving	6.8	6.3		16.57	17.89		8	

⁽¹⁾ A positive percent difference measures how much the mean wage in Tulsa is above the national mean wage, while a negative difference reflects a lower wage.

One occupational group—production—was chosen to illustrate the diversity of data available for any of the 22 major occupational categories. Tulsa had 40,720 jobs in production, accounting for 9.5 percent of local area employment, significantly higher than the 6.6-percent national share. The local average hourly wage for this occupational group was \$18.12, about 6 percent above the national average of \$17.06.

With employment of 5,210, team assemblers was one of the largest occupations within the production group, as were welders, cutters, solderers, and brazers (4,080) and production workers' helpers (3,130). Among the higher paying jobs were petroleum pump system operators, refinery operators, and gaugers and first-line supervisors of production and operating workers, with mean hourly wages of \$42.86 and \$28.26, respectively. At the lower end of the wage scale were laundry and dry-cleaning workers (\$10.43) and packaging and filling machine operators and tenders (\$11.43). (Detailed occupational data for production workers are presented in <u>table 1</u>; for a complete listing of detailed occupations see www.bls.gov/oes/current/oes_46140.htm.)

Location quotients allow us to explore the occupational make-up of a metropolitan area by comparing the composition of jobs in an area relative to the national average. (See <u>table 1</u>.) For example, a location quotient of 2.0 indicates that an occupation accounts for twice the share of employment in the area than it does nationally. In the Tulsa metropolitan area, above average concentrations of employment were found in many of the occupations within the production group. For instance, aircraft structure, surfaces, rigging, and systems assemblers were employed at 10.4 times the national rate in Tulsa, and petroleum pump system operators, refinery operators, and gaugers, at 5.0 times the U.S. average. Tulsa's aircraft structure, surfaces, rigging, and systems assemblers location quotient was among the highest in all metropolitan areas for this occupation. On the other hand, electrical and electronic equipment assemblers had a location quotient of 1.0 in Tulsa, meaning the local employment share in this particular occupation matched the national average.

These statistics are from the Occupational Employment Statistics (OES) survey, a federal-state cooperative program between BLS and State Workforce Agencies, in this case, the Oklahoma Employment Security Commission.

Note: * The percent share of employment or mean hourly wage for this area is significantly different from the national average of all areas at the 90-percent confidence level.

Note

A value that is statistically different from another does not necessarily mean that the difference has economic or practical significance. Statistical significance is concerned with the ability to make confident statements about a universe based on a sample. It is entirely possible that a large difference between two values is not significantly different statistically, while a small difference is, since both the size and heterogeneity of the sample affect the relative error of the data being tested.

Technical Note

The Occupational Employment Statistics (OES) survey is a semiannual mail survey measuring occupational employment and wage rates for wage and salary workers in nonfarm establishments in the United States. Guam, Puerto Rico, and the Virgin Islands are also surveyed, but their data are not included in the national estimates. OES estimates are constructed from a sample of about 1.2 million establishments. Forms are mailed to approximately 200,000 sampled establishments in May and November each year. May 2014 estimates are based on responses from six semiannual panels collected over a 3-year period: May 2014, November 2013, May 2013, November 2012, May 2012, and November 2011. The overall national response rate for the six panels is 74.3 percent based on establishments and 70.5 percent based on weighted sampled employment. The unweighted employment of sampled establishments across all six semiannual panels represents approximately 57.1 percent of total national employment. (Response rates are slightly lower for these estimates due to the federal shutdown in October 2013.) The sample in the Tulsa Metropolitan Statistical Area included 3,614establishments with a response rate of 77 percent. For more information about OES concepts and methodology, go to www.bls.gov/news.release/ocwage.tn.htm.

The OES survey provides estimates of employment and hourly and annual wages for wage and salary workers in 22 major occupational groups and 821 detailed occupations for the nation, states, metropolitan statistical areas, metropolitan divisions, and nonmetropolitan areas. In addition, employment and wage estimates for 94 minor groups and 458 broad occupations are available in the national data. OES data by state and metropolitan/nonmetropolitan area are available from www.bls.gov/oes/current/oessrcst.htm and www.bls.gov/oes/current/oessrcma.htm, respectively.

The May 2014 OES estimates are based on the 2010 Standard Occupational Classification (SOC) system and the 2012 North American Industry Classification System (NAICS). Information about the 2010 SOC is available on the BLS website atwww.bls.gov/soc and information about the 2012 NAICS is available at www.bls.gov/bls/naics.htm.

Area definitionsThe substate area data published in this release reflect the standards and definitions established by the U.S. Office of Management and Budget.

The **Tulsa Metropolitan Statistical Area** includes Creek, Okmulgee, Osage, Pawnee, Rogers, Tulsa, and Wagoner Counties in Oklahoma.

Additional informationOES data are available on our regional web page at www.bls.gov/regions/southwest. Answers to frequently asked questions about the OES data are available at www.bls.gov/oes/oes_ques.htm. Detailed technical information about the OES survey is available in our Survey Methods and Reliability

Statement on the BLS website at www.bls.gov/oes/currnet/methods_statement.pdf.

Information in this release will be made available to sensory impaired individuals upon request. Voice phone: 202-691-5200; Federal Relay Service: 800-877-8339.

Table 1. Employment and wage data from the Occupational Employment Statistics survey, by occupation, Tulsa Metropolitan Statistical Area, May 2014

Production occupations		Emplo	Employment		Mean wages		
First-line supervisors of production and operating workers.	Occupation (1)	Level (2)		Hourly	Annual ⁽⁴⁾		
Aircraft structure, surfaces, rigging, and systems assemblers	Production occupations	40,720	1.4	\$18.12	\$37,690		
Coll winders, tapers, and finishers	First-line supervisors of production and operating workers	2,710	1.4	28.26	58,780		
Coll winders, tapers, and finishers		1,330	10.4	20.04	41,680		
Electromechanical equipment assemblers		(5)	(5)	17.36	36,110		
Electromechanical equipment assemblers. 730 4.9 18.12	• • •	630	1.0	13.68	28,450		
Engine and other machine assemblers. 340 2.8 15.12 Structural metal fabricators and filters. 730 3.0 17.09 Team assemblers. 5,210 1.5 15.70 Assemblers and fabricators, all other. 310 0.4 13.56 Bakers. 440 0.8 11.11 Butchers and meat cutters. 450 1.0 11.96 Meat, poultry, and fish cutters and trimmers. 70 0.1 13.17 Food and tobacco roasting, baking, and drying machine operators and tenders. 69 (6) 12.99 Food batchmakers. 410 1.1 11.86 Food cooking machine operators and tenders. 60 0.0 13.45 Food processing workers, all other. 80 0.6 13.45 Food processing workers, all other. 80 0.6 13.45 Food processing workers, all other 90 0.1 1.0 11.96 Computer-controlled machine tool operators, metal and plastic. 10.00 2.3 19.57 Computer numerically controlled machine tool programmers, metal and plastic. 10.00 2.3 19.57 Extruding and drawing machine setters, operators, and tenders, metal and plastic. 90 1.4 21.84 Rolling machine setters, operators, and tenders, metal and plastic. 90 1.4 21.84 Rolling machine setters, operators, and tenders, metal and plastic. 90 1.4 21.84 Rolling machine setters, operators, and tenders, metal and plastic. 90 1.4 21.84 Grinding, lapping, polishing, and persamethine setters, operators, and tenders, metal and plastic. 11.20 1.9 15.23 Dilling and boring machine tool setters, operators, and tenders, metal and plastic. 11.20 1.9 15.23 Dilling and boring machine tool setters, operators, and tenders, metal and plastic. 11.20 1.9 15.23 Milling and planing machine tool setters, operators, and tenders, metal and plastic. 11.20 1.9 15.23 Dilling and boring machine tool setters, operators, and tenders, metal and plastic. 11.20 1.9 15.23 Dilling and boring machine tool setters, operators, and tenders, metal and plastic. 11.20 1.9 15.23 Milling and planing machine tool setters, operators, and tenders, metal and plastic. 11.20 1.9 18.28 Milling and planing machine setters, operators, and tenders, metal and plastic. 11.20 1.9 18.28 Milling and planing machine setters, operators, and t		730	4.9	18.12	37,700		
Structural metal fabricators and fitters. 730 3.0 17.09		340	2.8	15.12	31,450		
Team assemblers.	•				35,550		
Assemblers and fabricators, all other.	Team assemblers.			15.70	32,650		
Bakers. 440 0.8 11.11 Butchers and meat cutters. 450 1.0 11.96 Meat, poultry, and fish cutters and trimmers. 70 0.1 13.17 Food and tobacco roasting, baking, and drying machine operators and tenders. (6) (5) 12.99 Food batchmakers. 410 1.1 11.86 Food processing workers, all other. 80 0.6 11.66 Computer-controlled machine tool operators, metal and plastic. 1,060 2.3 19.57 Computer numerically controlled machine tool programmers, metal and plastic. 70 0.8 27.26 Extruding and drawing machine setters, operators, and tenders, metal and plastic. 70 0.8 27.26 Extruding and drawing machine setters, operators, and tenders, metal and plastic. 90 1.4 21.84 Rolling machine setters, operators, and tenders, metal and plastic. 300 3.7 17.25 Cutting, punching, and press machine setters, operators, and tenders, metal and plastic. 1,120 1.9 15.23 Drilling and boring machine tool setters, operators, and tenders, metal and plastic. 320 5.8					28,200		
Butchers and meat cutters	· ·				23,100		
Meat, poultry, and fish cutters and trimmers. 70 0.1 13.17 Food and tobacco roasting, baking, and drying machine operators and tenders. (5) (5) 12.99 Food booking machine operators and tenders. (5) (6) 12.99 Food processing workers, all other. 80 0.6 11.66 Computer-controlled machine tool operators, metal and plastic. 1,060 2.3 19.57 Computer numerically controlled machine tool programmers, metal and plastic. 70 0.8 27.26 Extruding and drawing machine setters, operators, and tenders, metal and plastic. 90 1.4 21.84 Forging machine setters, operators, and tenders, metal and plastic. 390 3.7 17.25 Cutting, punching, and press machine setters, operators, and tenders, metal and plastic. 390 3.7 17.25 Uttling, punching, and press machine setters, operators, and tenders, metal and plastic. 320 5.8 18.34 Grinding, lapping, polishing, and buffing machine tool setters, operators, and tenders, metal and plastic. 310 1.4 15.49 Lathe and turning machine setters, operators, and tenders, metal and plastic. 260 1.9 <td< td=""><td></td><td></td><td></td><td></td><td>24,880</td></td<>					24,880		
Food and tobacco roasting, baking, and drying machine operators and lenders.					27,390		
tenders.		, ,	0.1	10.17	21,550		
Food batchmakers.		(5)	(5)	12.99	27,020		
Food cooking machine operators and tenders. 60		410	1.1		24,670		
Food processing workers, all other					27.970		
Computer controlled machine tool operators, metal and plastic	•		0.6		24,250		
Computer numerically controlled machine tool programmers, metal and plastic					40,700		
Extruding and drawing machine setters, operators, and tenders, metal and plastic. 120 0.5 16.78 Forging machine setters, operators, and tenders, metal and plastic. 20 1.4 21.84 Rolling machine setters, operators, and tenders, metal and plastic. 20 390 3.7 17.25 Cutting, punching, and press machine setters, operators, and tenders, metal and plastic. 21 1,120 1.9 15.23 Drilling and boring machine tool setters, operators, and tenders, metal and plastic. 22 1.84 Setters, operators, and tenders, metal and plastic. 23 20 5.8 18.34 Grinding, lapping, polishing, and buffing machine tool setters, operators, and tenders, metal and plastic. 25 26 1.9 18.28 Milling and planing machine setters, operators, and tenders, metal and plastic. 260 1.9 18.28 Milling and planing machine setters, operators, and tenders, metal and plastic. 100 1.4 14.45 Machinists. 25 90 2.1 18.34 Metal-refining furnace operators and tenders. 25 90 2.1 18.34 Metal-refining furnace operators and tenders. 26 19 2.3 12.82 Molding, coremaking, and casting machine setters, operators, and tenders, metal and plastic. 25 0 0.6 12.45 Multiple machine tool setters, operators, and tenders, metal and plastic. 26 0 0.9 23.43 Metal-refining furnace operators, and tenders, metal and plastic. 27 00 10 0.9 23.43 Metalers, operators, and tenders, metal and plastic. 28 0 0.9 23.43 Metalers, operators, and tenders, metal and plastic. 29 0 0.9 23.43 Metalers, operators, and tenders, metal and plastic. 20 0 0.9 23.43 Metalers, operators, and tenders, metal and plastic. 28 0 0.9 2.9 2.9 2.9 Melding, soldering, and brazing machine setters, operators, and tenders, metal and plastic. 16 0 2.4 17.62 Melating machine setters, operators, and tenders, metal and plastic. 29 15.46 Melating machine setters, operators, and tenders, metal and plastic. 29 15.46 Melating machine setters, operators, and tenders, metal and plastic.	Computer numerically controlled machine tool programmers, metal and				56,700		
Forging machine setters, operators, and tenders, metal and plastic	Extruding and drawing machine setters, operators, and tenders, metal				34,910		
Rolling machine setters, operators, and tenders, metal and plastic	·				45,430		
Cutting, punching, and press machine setters, operators, and tenders, metal and plastic. Drilling and boring machine tool setters, operators, and tenders, metal and plastic. Grinding, lapping, polishing, and buffing machine tool setters, operators, and tenders, metal and plastic. 320 5.8 18.34 Grinding, lapping, polishing, and buffing machine tool setters, operators, and tenders, metal and plastic. 310 1.4 15.49 Lathe and turning machine tool setters, operators, and tenders, metal and plastic. 310 1.4 15.49 Lathe and turning machine tool setters, operators, and tenders, metal and plastic. 310 1.4 15.49 Lathe and turning machine setters, operators, and tenders, metal and plastic. 310 1.4 15.49 Lathe and turning machine setters, operators, and tenders, metal and plastic. 310 1.4 15.49 Lathe and turning machine setters, operators, and tenders, metal and plastic. 310 1.4 15.49 Lathe and turning machine setters, operators, and tenders, metal and plastic. 310 1.4 15.49 Lathe and turning machine setters, operators, and tenders, metal and plastic. 310 1.4 15.49 Lathe and turning machine setters, operators, and tenders, metal and plastic. 310 1.4 15.49 Lathe and turning machine setters, operators, and tenders, metal and plastic. 310 1.4 15.49 Lathe and turning machine setters, operators, and tenders, metal and plastic. 310 1.4 15.49 Lathe and turning machine setters, operators, and tenders, metal and plastic. 310 1.4 15.49 Lathe and turning machine setters, operators, and tenders, metal and plastic. 310 1.4 1.4 15.49 1.5.49 1.5.49 1.8.34 1.9.40 1.9 1.8.28 1.9 1.9 1.9 1.8.28 1.1.20 1.9 1.9 1.8.28 1.1.40 1.9 1.9 1.9 1.9 1.9 1.8.28 1.1.41 1.4.45 1.5.49 1.9 1.9 1.9 1.9 1.9 1.9 1.9					35,870		
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operators, and tenders, metal and plastic. 310 1.4 15.49 Lathe and turning machine tool setters, operators, and tenders, metal and plastic. 260 1.9 18.28 Milling and planing machine setters, operators, and tenders, metal and plastic. 100 1.4 14.45 Machinists. 2,590 2.1 18.34 Metal-refining furnace operators and tenders. (5) (5) 14.68 Foundry mold and coremakers. 90 2.3 12.82 Molding, coremaking, and casting machine setters, operators, and tenders, metal and plastic. 250 0.6 12.45 Multiple machine tool setters, operators, and tenders, metal and plastic. 880 2.8 16.57 Tool and die makers. 200 0.9 23.43 Welders, cutters, solderers, and brazers. 4,080 3.5 20.19 Welding, soldering, and brazing machine setters, operators, and tenders. 520 3.0 19.82 Heat treating equipment setters, operators, and tenders, metal and plastic. 160 2.4 17.62 Plating and coating machine setters, operators, and tenders, metal and plastic. 240 2.2 15.46	· ·	320	5.8	18.34	38,140		
and plastic. 260 1.9 18.28 Milling and planing machine setters, operators, and tenders, metal and plastic. 100 1.4 14.45 Machinists. 2,590 2.1 18.34 Metal-refining furnace operators and tenders. (5) (5) 14.68 Foundry mold and coremakers. 90 2.3 12.82 Molding, coremaking, and casting machine setters, operators, and tenders, metal and plastic. 250 0.6 12.45 Multiple machine tool setters, operators, and tenders, metal and plastic. 880 2.8 16.57 Tool and die makers. 200 0.9 23.43 Welders, cutters, solderers, and brazers. 4,080 3.5 20.19 Welding, soldering, and brazing machine setters, operators, and tenders. 520 3.0 19.82 Heat treating equipment setters, operators, and tenders, metal and plastic. 160 2.4 17.62 Plating and coating machine setters, operators, and tenders, metal and plastic. 240 2.2 15.46		310	1.4	15.49	32,220		
plastic. 100 1.4 14.45 Machinists. 2,590 2.1 18.34 Metal-refining furnace operators and tenders. (5) (5) 14.68 Foundry mold and coremakers. 90 2.3 12.82 Molding, coremaking, and casting machine setters, operators, and tenders, metal and plastic. 250 0.6 12.45 Multiple machine tool setters, operators, and tenders, metal and plastic. 880 2.8 16.57 Tool and die makers. 200 0.9 23.43 Welders, cutters, solderers, and brazers. 4,080 3.5 20.19 Welding, soldering, and brazing machine setters, operators, and tenders. 520 3.0 19.82 Heat treating equipment setters, operators, and tenders, metal and plastic. 160 2.4 17.62 Plating and coating machine setters, operators, and tenders, metal and plastic. 240 2.2 15.46		260	1.9	18.28	38,020		
Machinists. 2,590 2.1 18.34 Metal-refining furnace operators and tenders. (5) (5) 14.68 Foundry mold and coremakers. 90 2.3 12.82 Molding, coremaking, and casting machine setters, operators, and tenders, metal and plastic. 250 0.6 12.45 Multiple machine tool setters, operators, and tenders, metal and plastic. 880 2.8 16.57 Tool and die makers. 200 0.9 23.43 Welders, cutters, solderers, and brazers. 4,080 3.5 20.19 Welding, soldering, and brazing machine setters, operators, and tenders. 520 3.0 19.82 Heat treating equipment setters, operators, and tenders, metal and plastic. 160 2.4 17.62 Plating and coating machine setters, operators, and tenders, metal and plastic. 240 2.2 15.46		100	1.4	14 45	30,060		
Metal-refining furnace operators and tenders. (5) (5) 14.68 Foundry mold and coremakers. 90 2.3 12.82 Molding, coremaking, and casting machine setters, operators, and tenders, metal and plastic. 250 0.6 12.45 Multiple machine tool setters, operators, and tenders, metal and plastic. 880 2.8 16.57 Tool and die makers. 200 0.9 23.43 Welders, cutters, solderers, and brazers. 4,080 3.5 20.19 Welding, soldering, and brazing machine setters, operators, and tenders. 520 3.0 19.82 Heat treating equipment setters, operators, and tenders, metal and plastic. 160 2.4 17.62 Plating and coating machine setters, operators, and tenders, metal and plastic. 240 2.2 15.46	•				38,140		
Foundry mold and coremakers					30,540		
Molding, coremaking, and casting machine setters, operators, and tenders, metal and plastic	9	90	2.3		26,670		
Multiple machine tool setters, operators, and tenders, metal and plastic	Molding, coremaking, and casting machine setters, operators, and				25,900		
Tool and die makers	Multiple machine tool setters, operators, and tenders, metal and				34,460		
Welders, cutters, solderers, and brazers	·				48.740		
Welding, soldering, and brazing machine setters, operators, and tenders					46,740 41,990		
Heat treating equipment setters, operators, and tenders, metal and plastic	Welding, soldering, and brazing machine setters, operators, and				41,990		
Plating and coating machine setters, operators, and tenders, metal and plastic	Heat treating equipment setters, operators, and tenders, metal and				36,660		
·	Plating and coating machine setters, operators, and tenders, metal and				32,160		
Tool gringers, tilers, and snarpeners	Tool grinders, filers, and sharpeners	100	2.8	14.56	30,280		
Metal workers and plastic workers, all other	•				30,460		
Prepress technicians and workers	·				32,320		
Printing press operators. 280 0.5 15.34					31,910		

Table 1. Employment and wage data from the Occupational Employment Statistics survey, by occupation, Tulsa Metropolitan Statistical Area, May 2014 - Continued

	Employment		Mean wages		
(1)	(2)	Location		- (4)	
Occupation (1)	Level (2)	quotient (3)	Hourly	Annual (4)	
Print binding and finishing workers	50	0.3	13.45	27,970	
Laundry and dry-cleaning workers	600	0.9	10.43	21,680	
Pressers, textile, garment, and related materials	170	1.1	9.55	19,860	
Sewing machine operators	160	0.4	10.89	22,650	
Upholsterers	70	0.7	17.59	36,590	
Cabinetmakers and bench carpenters	190	0.7	15.85	32,970	
Furniture finishers	(5)	(5)	16.58	34,490	
Woodworking machine setters, operators, and tenders, except sawing	80	0.4	14.42	30,000	
Power plant operators.	180	1.4	29.81	62,010	
Stationary engineers and boiler operators	70	0.6	23.55	48,990	
Water and wastewater treatment plant and system operators	250	0.7	18.67	38,830	
Gas plant operators.	310	6.1	25.01	52,020	
Petroleum pump system operators, refinery operators, and gaugers	660	5.0	42.86	89,150	
Chemical equipment operators and tenders		1.5	24.13	50,180	
Separating, filtering, clarifying, precipitating, and still machine setters,				,	
operators, and tenders	60	0.4	10.57	21,990	
Crushing, grinding, and polishing machine setters, operators, and					
tenders	110	1.1	13.62	28,340	
Grinding and polishing workers, hand	230	2.5	13.97	29,060	
Mixing and blending machine setters, operators, and tenders	130	0.3	21.96	45,690	
Cutters and trimmers, hand	50	1.1	15.36	31,940	
Cutting and slicing machine setters, operators, and tenders	160	0.8	14.82	30,820	
Extruding, forming, pressing, and compacting machine setters,				,	
operators, and tenders	90	0.4	14.43	30,010	
Furnace, kiln, oven, drier, and kettle operators and tenders	80	1.2	15.97	33,210	
Inspectors, testers, sorters, samplers, and weighers	2,540	1.6	20.52	42,670	
Jewelers and precious stone and metal workers	30	0.5	(5)	(5	
Dental laboratory technicians	160	1.4	19.15	39,840	
Medical appliance technicians	70	1.6	14.47	30,100	
Ophthalmic laboratory technicians	120	1.4	11.69	24,310	
Packaging and filling machine operators and tenders	900	0.7	11.43	23,770	
Coating, painting, and spraying machine setters, operators, and					
tenders	680	2.4	17.24	35,860	
Painters, transportation equipment	210	1.4	21.75	45,230	
Painting, coating, and decorating workers	60	1.2	11.22	23,330	
Photographic process workers and processing machine operators	100	1.1	10.93	22,740	
Cleaning, washing, and metal pickling equipment operators and					
tenders	30	0.6	15.13	31,480	
Etchers and engravers	(5)	(5)	15.77	32,800	
Molders, shapers, and casters, except metal and plastic	90	0.8	14.68	30,540	
Paper goods machine setters, operators, and tenders	540	1.9	21.45	44,610	
Helpersproduction workers	3,130	2.4	13.52	28,120	
Production workers, all other	410	0.6	16.37	34,060	

⁽¹⁾ For a complete listing of all detailed occupations in the Tulsa MSA, see www.bls.gov/oes/current/oes_46140.htm.

⁽²⁾ Estimates for detailed occupations do not sum to the totals because the totals include occupations not shown separately. Estimates do not include self-employed workers.

⁽³⁾ The location quotient is the ratio of the area concentration of occupational employment to the national average concentration. A location quotient greater than one indicates the occupation has a higher share of employment than average, and a location quotient less than one indicates the occupation is less prevalent in the area than average.

⁽⁴⁾ Annual wages have been calculated by multiplying the hourly mean wage by a 'year-round, full-time' hours figure of 2,080 hours; for those occupations where there is not an hourly mean wage published, the annual wage has been directly calculated from the reported survey data.

⁽⁵⁾ Estimates not released.